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APPLICATION NO.	ICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO. CONFIRMATION N	
10/726,076 12/02/2003		Wansheng Liu	LA0083 (NP)	4813
23914 75	23914 7590 12/15/2006		EXAMINER SAEED, KAMAL A	
LOUIS J. WIL				
PATENT DEPA	ERS SQUIBB COMPAN ARTMENT	ART UNIT	PAPER NUMBER	
P O BOX 4000		1626	:	
PRINCETON,	NJ 08543-4000		DATE MAILED: 12/15/2006	; ·

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)			
Office Action Summary		10/726,0	76	LIU, WANSHENG			
		Examine	r	Art Unit			
		Kamal A.		1626			
Period fo	The MAILING DATE of this commun r Reply	ication appears on th	e cover sheet with the	correspondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M sisions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street or reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AALLING DATE OF To s of 37 CFR 1.136(a). In no evenunication. atutory period will apply and very will, by statute, cause the app	HIS COMMUNICATION  Vent, however, may a reply be will expire SIX (6) MONTHS froughted the plication to become ABANDO	ON.  timely filed  m the mailing date of this communication.  NED (35 U.S.C. § 133).			
Status	-						
1)⊠	Responsive to communication(s) filed on 11 September 2006.						
2a)□	his action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
(3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims		:	• ,			
4)⊠	4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.						
· ·	4a) Of the above claim(s) <u>1-8</u> is/are withdrawn from consideration.						
	Claim(s) <u>19-29</u> is/are allowed.						
·							
	Claim(s) <u>11-18</u> is/are objected to.						
	Claim(s) <u>17-76</u> is/are objected to:  Claim(s) are subject to restriction and/or election requirement.						
	on Papers						
9) The specification is objected to by the Examiner.							
10)	The drawing(s) filed on is/are						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 11/18/04& 6/30/04.	PTO-948)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date			

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#### **DETAILED ACTION**

Claims 1-29 are currently pending in this application. Claims 1-8 are withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b), as being drawn to a non-elected invention. The withdrawn subject matter is patentably distinct from the elected subject matter as it differs in structure and element and would require separate search considerations. In addition, a reference, which anticipates one group, would not render obvious the other.

#### Information Disclosure Statement

Applicant's Information Disclosure Statements, filed on 30 June 2004 and 18 November 2004 have been considered. Please refer to Applicant's copy of the 1449 submitted herewith.

## Response to Restriction

Applicants' election of Group II, claims 9-29, drawn to a method of recovering a drug substance from a liquid medium. Applicants also elected palladium species; polystyrene resin as solid extract species; tetrahydrofuran as liquid species; and

as a drug substance species. Because Applicants did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Therefore, the restriction requirement is deemed proper.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

#### Scope of the elected and examined subject matter

A method of recovering drug of the Formula,

wherein: Het represents

a 1,2 diazole group; R1 and R2 each represent an aryl groups; X and Z are as defined.

As a result of the election and the corresponding scope of the invention identified supra, the remaining subject matter of claims 9-29 are withdrawn from further consideration pursuant to 37 CFR 1.142 (b) as being drawn to non-elected inventions. The withdrawn compounds contain varying functional groups such as triazine, homopiperazinyl, thiomopholinyl, propylaminyl etc, which are chemically recognized to differ in structure and function. This recognized chemical diversity of the functional groups can be seen by the various classification of these functional groups in the U.S. classification system, i.e. class 544 subclass 63(+) (thiomorpholine), class 540 subclass 450(+) (homopiperzinyl), class 544 subclass 180(+) (triazines), 548 subclass 400(+) pyrrolidines etc. Therefore the subject matter which are withdrawn from consideration as being non-elected subject differ materially in structure and composition and have been restricted

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properly a reference which anticipated but the elected subject matter would not even render obvious the withdrawn subject matter and the fields of search are not co-extensive.

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 9 and 10 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 1 is directed to a method of recovering a drug substance from a liquid medium wherein the drug substance is not defined by any Formula.

For rejections under 35 U.S.C. 112, first paragraph, the following factors must be considered (In re Wands, 8 USPQ2d 1400, 1404 (CaAFC, 1988)):

- 1) Nature of invention.
- 2) State of prior art.
- 3) Level of ordinary skill in the art.
- 4) Level of predictability in the art.
- 5) Amount of direction and guidance provided by the inventor.
- 6) Existence of working examples.
- 7) Breadth of claims.

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8) Quantity of experimentation needed to make or use the invention based on the content of the disclosure.

See below:

#### Nature of the invention.

The claims are drawn to a method of recovering a drug substance from a liquid medium wherein the drug substance is not defined by any Formula.

#### State of the prior art.

There are several drug substances that have different structures..

### Level of ordinary skill in the art.

The level of ordinary skill in the art is high. The term drug substance is broad and encompasses a vast number of compounds. Applicant's specification does not enable the public to use the method of extraction for all drug substances.

## Amount of direction and guidance provided by the inventor.

The term "drug substance" encompasses a vast number compounds and compositions.

Applicant's limited guidance does not enable the public to prepare such a numerous amount of compounds of by the instant process.

#### Existence of working examples.

The genus encompasses a vast number of drug substances. Applicant's limited working examples do not enable the public to recover all drug substances by the instant process.

Applicant claims a method for recovering a plethora of drug substances, however, the specification provides only limited examples of the instant process.

Quantity of experimentation needed to make or use the invention based on the content of the disclosure.

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The specification did not enable any person skilled in the art to which it pertains to make or use the invention commensurate in scope with this claim. In particular, the specification failed to enable the skilled artisan to practice the invention without undue experimentation. The skilled artisan would have a numerous amount of modifications to perform in order to obtain compounds as claimed.

Based on the unpredictable nature of the invention and state of the prior art and the extreme breadth of the claims, one skilled in the art could not perform the claimed process without undue experimentation, see In re Armbruster 185 USPQ 152 CCPA 1975.

It is suggested to include the Formula of the drug substance contemplated in claim 9. **Objections** 

Claims 11-18, are objected to for containing elected and non-elected subject matter.

Claims 11-18 are also rejected for depending on a rejected base claim. Claims drawn solely to the elected invention as identified supra, would appear allowable.

### Allowable Subject Matter

Claims 19-29 are allowable over the prior art.

# Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kamal Saeed whose telephone number is (703) 308-4592. The examiner can normally be reached on Monday-Friday from 8:00 AM – 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Joseph K. McKane, can be reached at (703) 308 4537. The unofficial fax phone for this group are (703) 308-4556 or 305-3592.

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When filing a FAX in Technology Center 1600, please indicate the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communications with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

Communication via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signiture, may be used by applicant and should be addressed to [joseph.mckane@uspto.gov]. All Internet e-mail communications will be made of record in the application file. PTO employees will not communicate with applicant via Internet e-mail where sensitive data will be exchanged or where there exists a possibility that sensitive data could be identified unless there is of record an express waiver of the confidentiality requirements under 35 U.S.C. 122 by the applicant. See the Interim Internet Usage Policy published by the Patent and Trademark Office Official Gazette on February 25, 1997 at 1195 OG 89.

KAMAL A. SAEED, PH.D. PRIMARY EXAMINER